

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/101,423B

DATE: 01/23/2001

TIME: 12:21:16

Input Set : A:\Pto.amc

Output Set: N:\CRF3\01232001\I101423B.raw

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3 <110> APPLICANT: Rudland, Philip S.
4      Barraclough, Roger B.
W--> 5 <120> TITLE OF INVENTION: Metastasis Inducing DNA's
W--> 6 <130> FILE REFERENCE: WPT 0114 PUS
W--> 7 <140> CURRENT APPLICATION NUMBER: US 09/101,423B
8 <141> CURRENT FILING DATE: 1998-11-27
9 <150> PRIOR APPLICATION NUMBER: PCT/GB97/00074
10 <151> PRIOR FILING DATE: 1997-01-10
W--> 11 <160> NUMBER OF SEQ ID: 8
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 1033 base pairs
15 <212> TYPE: DNA
16 <213> ORGANISM: Homo sapiens
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21 cttgacagac tctgggacag tcccctctgc tctcctgttg gcgcctgagt ccctttttgc      120
23 ctgaggaccc ttacagtagc ctcccatctg gatgacctag tagaagacgt gggaaagtgt      180
25 cacactcagg taactgagca gagctcagag atttaaagtg agtctgggga gcctcgagga      240
27 ttgatctgct gccttaaaaa gccaatTgga tgactaacc agactattgt cacttttaggt      300
29 gggaagtcac tagcatatct gatgggtcac atctgagaaa ggtttctagc agtggtgGCC      360
31 ttgtgtgagc agcatggcgt gtatcatggt gtgcagcata ctCaggctgc ttgcaacct      420
33 cgaggctctt ctCaggtatt aggggaacca ctgggtgttg acatggTcca agaatacagt      480
35 catgtgagga gaatcccaat gcgtcaggag aaaacgagag tctgtgacct ccattcttca      540
37 agatacagaa ttattcttgg actgtgtttt catgtctcct gtggatggga gtgagtttac      600
39 ttcagggttaa tcagcattgc ttactgttgg tattcaagta aatgcttaaa ttatcctgga      660
41 tatacctctg tgggaagcag gtttttgata catgcagctt gtccttgtga ttgatactgc      720
43 ttgaactcaa gagaactttg ctcatgtgat ctttcttaac cgatggagta gaaactgtct      780
45 gatgtctca ataaagttgg ctcttgcaag agacgttagt ctgtcctgtt tatctgctcc      840
47 attcttccgc tcccacggcc tctacagcac taaaccacc accgatagac tcagtctttc      900
49 actgacaaac atcaccagag gctcttaact gagattataa actgttacta gatgatgggt      960
51 tgaatcgctc ccagaaaca taaacattta cttggagaac tcaagacccc tttgtagaca      1020
53 taactcccat ggt                                     1033

55 <210> SEQ ID NO: 2
56 <211> LENGTH: 1058 base pairs
57 <212> TYPE: DNA
58 <213> ORGANISM: Homo sapiens
W--> 59 <400> SEQUENCE: 2
60 attgctgtga gcctattagc gacatttggt gacgcccctt ttaagggggT agatacaaaG      60
62 aatgggttga aattctgtgc cacaacgct ctccatgttt tcacaattac acttgcaacc      120
64 tgtggtcagc agccagaatt tagggatgtg atgggacagg gtccgggaaa gaaggagaag      180
66 ggtaaaggaa agacagcacg ttaaagtcca aacagctcca ggagactatc tgtagaaata      240
68 acatcagacc atgaggagaa ttgatatcat tgtttttcaa tgggtatcgc caagggaact      300
70 tccatctga ttaaaaaata ttactgctgg cactaaatcc aattggaaat gccccacaca      360
72 atttatcttc cacttcatgc tgctaccata tgctgacgt ggcggagcag aagcattccc      420
74 tcccgttctg ataaatagta ctttgtaaat atttgagac gggagctctg gtgacagga      480
76 acacgtacaa accggcctgt ttatcatgtt ccgatagag gccctctttg acgtacagga      540
78 ccccaaaaca gtcaggatgc tgtgaatttc ctccatgaa gccttgttca caattagcaa      600

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80 ccattggagg aagcaggctg cactgtctac cacaagtggc actttccaaa gagcacacat 660
82 atattggagc aagacatttt gctggctgac tgggtgctgtg taagctgata aactgctata 720
84 tttattaaac tggtttttct ttgaacaccc cactcaagg aaaaaaaaca cacttagggt 780
86 gacattatit ggagatgaag tctttataga gatgcttaag tttaaacgag acttttaaa 840
88 ccggctctat tccatttaat gaatgggtgc cctacaaagg aagaaactgg gacagaggta 900
90 tgtacacttg tgtgtgtgtg agagacaacg tgaggagctg aagaggagca cgtacaagtc 960
92 agagaaaggg tgacccttat tcacactgag caaaccagtc atgtgtgggt cgatagatga 1020
94 gagtatcccc caagactcac acattcgaac gcttggtc 1058

96 <210> SEQ ID NO: 3
97 <211> LENGTH: 1008 base pairs
98 <212> TYPE: DNA
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 3
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104 aggggcgaac tgcacacaca tgtgcacata cacttacaga gacacacatt cagcagcata 120
106 agaacacaat cacaaataaa aaaaatcttg aaaaatttta agctaaaatt gtttaagaaat 180
108 aacatatata caatttttct ttattttttt aaagatttat ttatttaatg tatatgagta 240
110 cactgcctct cctccagac atagcagtag agggcatcgg atcccattac agatgggtgt 300
112 gagccaccat gtggtttcac agatggttgt gagccaccat gtggtttcag gaattgaact 360
114 caggaccttt ggaagagcag tcagtgtctt taacctctaa gccatctctc ctgaccctta 420
116 tatacaattt taatgctacg tacacacaac ttctctttcc tttaatgggt gagatttttg 480
118 tctggagaag taagaataaa ggagggaaa aacattgctt tcacattgca ccagtgggaa 540
120 cagcgtgttt aaagtaggaa tgccatgaaa tgactggcct gccttctcat tactgttct 600
122 cccactcttc cttttaactg gagctccttt atctaattta ttagtttgac gatacccagg 660
124 gttttcttct gttttgatct ttttaagaca gagactcacc atatagccct ggctggcctg 720
126 aagctcacta ttagaccag tctggccttg aactcaaagg agatctatct gcttccatgt 780
128 gctgggatta aagccttggt ctaccaagtc tgggtctgag ctttggagca gctcgggtt 840
130 tggccttctt taaggatctc taagctagca gtaagtagcc tagccatgct gttgtaggaa 900
132 gttgttctgt catcctggtt ccagcacaaa ggcagtcact aaacgtcggc ctcatttcat 960
134 cagagctgaa tgcaaatcc ttgtgtcttt cctgtgtcct cctggaac 1008

136 <210> SEQ ID NO: 4
137 <211> LENGTH: 1088 base pairs
138 <212> TYPE: DNA
139 <213> ORGANISM: Homo sapiens
141 <400> SEQUENCE: 4
142 agttggggac acagcttgct tgattaagat gttttcttggg aaaaggagtt aagcctaattg 60
144 atttccaatg gaaaggactg ctaattgggg aggcaatgtt gcttaattgg gacacctgctg 120
146 ggtaattaaa agctctctcc cagtggcctt tctgttttt ggctctggga ggcgaaggca 180
148 ttgagaggga tgcaggcatt ctaaggcctg gttcttgggt tctcccttcc cctctgtcca 240
150 aactcagtga ggtatccctg tctgtgtgt ccttagagtg ccgtcctgag gccttggtga 300
152 gttaagggtc ctggatctga gctgcctcag ggaaacgcac gagctcattg gaaagggag 360
154 aaccaggcaa aggtgttggc tgtgacctca gaattctgag gggcaaagg tcaaggctaa 420
156 ctctcattat agagcaagtt tgagactggc ctgggaacaa aaatataaag tgagtgggt 480
158 catatgacag cacctgagga gtcctgtccc tagagatcat aaggacctgg ctgctgggga 540
160 cttgttgcag atggcacttt gtgtcgagag agggggacctg cccagcagtg ggaggccctg 600
162 gaagatectc tggattaaact gtgaacactg attgtgctt tatacctgga gttgtgtgt 660
164 tatctggtac acatctgctg ggtgaatgag ttcattgggt ttatttctag gaggtattta 720
166 cctgaggaga aagaaggact ggtgccacaa agcacagctt ttaaattctgt gggttgtgac 780
168 ccattatgga ctatcataac tgagtgcagg tatcaagaat acttttagcag gtggtaaaaa 840

```

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170 gattttttgaa tgcgcaacga ccaaaaactga actcaaaaaat caagcatggc atggatccctg      900
172 ggtgctcctg gaagcacttg cctttactgc attgtgcgac ttgacggtag ccttggttct      960
174 gaatgcacaa cacgtgggct ttgggctgca caggccacca cgccgtgcct gaaacacctc     1020
176 agctcaggtt tgtggctatg tcctatgact tggacttact tttattgcac atataaatat     1080
178 tttcctgc      1088
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181 <211> LENGTH: 960 base pairs
182 <212> TYPE: DNA
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 5
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188 cggggttagaa atttaaaagc cctgagggga attttttttt taaatcgcta tgaatctgac     120
190 atgagaaaaa cagatcagaa acgttcttgt gcttcagaaa aggacaagtg tgtgagctaa     180
192 cagactgcac actggtgttc gaggcacatc tggatcacag gacgctcaga taatgtcccc     240
194 aaaggtaaat gcatttgctt gcacagtacc gagtgtgggtg ggggggtgcct acagcccagc     300
196 ggttctcaac cttcctgatg cttcgacctt ttaatacagt gcctcatgct ctggtgacct     360
198 ccccaacctt aaaattatct ttgttgctgt tcataactgt gattttgata ctgttatgaa     420
200 ttgtaataata aataattttg aagaaagagg tttgccaagg gtttgagaac tgcgtttcta     480
202 gccccacgtg gatgggtttt cgtcatttgg ggtttttatg aggcagagtc ttatgtagcc     540
204 caggctagca gcctagaatg tgctacttag ctgaggaata accttggaaac ttctgaggac     600
206 tggagagact ggcttagtcc tcaagaaact ggaaatagct ggagtttggc tacttgtggg     660
208 ttcctttttc ttcaaacctt ttctactctt ttccaccctt gtcggccccc taacactaaa     720
210 taagaaaagag aaaggggagc atagagggga aaagaaaccc ctgaataacg tcagtagttg     780
212 gcaaaagggg gtgacatatg ttgtcattag accacatcct ggtgattaag gggagtcagg     840
214 ttccttgggg caagtttgat ctttcgtgta acgatattcta atttcttctc cctgttgctt     900
216 cgtctttgtg aacaacgact tgataaccca caatggacca tcaaccaacc aaccaacctat     960
218 <210> SEQ ID NO: 6
219 <211> LENGTH: 1090 base pairs
220 <212> TYPE: DNA
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 6
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228 gtgttctact gtcagatgtg tagctgttcc tgtccactga ctttcaagct gtctctgtgt     180
230 gcaggaacca gaagggcctg tccctacttc tactgggccc ctacgcacag ggggcctaga     240
232 tgggtgctagg tgttttcttc tagagcctga aatgtgggca gagagtagtc tcctctgggt     300
234 tcctaggtat gtcttcccct ctgaagggtc agctctccct tccatgggat atgggtgcag     360
236 ggagctgttt gaccaggtcc tctcaaatcc ggggtgcagt tggaccgcag gctcctgtag     420
238 cttgcctgct gcaatcttcc cgcacccaga ggcacccaag tttcctcttg ggccaaggat     480
240 gtgggcaaaag gtgggcagaa gtggcaatct ctccctgccc agcgtctcag gattgccctc     540
242 acttctgggc aatccgctct ctctccaca ggggttggga gcagggagct gtgggccggg     600
244 atcaggcaaa ggtttgaggc aaccagttag aaactggaag tgtcagggtcc cagaggaatt     660
246 ttgcctttgt gtgtcctgag tccaccaggc aggtcacttg gagcagaaaa attggttttc     720
248 ccctcgggtc caggcctgaa gttgcacctc aggggtgggt ttcagctgta cctgtggaaa     780
250 gtatggtttt aaaaatctaa gatagctatc atgcagcaag gcttgtgtaa aatgtctatt     840
252 tggttccttt atgacttact tttgctgtac tgaggatcaa acctaggggtc tcaagcagtc     900
254 atcacaattc tctgtcactg atccagctcc atttctatct tcttttgtcc cgcgcgatct     960
256 ctgcgccagc agaaaacacg ctaggggacat acgaatcctt gctgcagcca aaacttttat     1020
258 tgaatcttaa ggagaagccc gcgcaccgga ctggcgcggt ttatatacac ctagcacag     1080

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Output Set: N:\CRF3\01232001\I101423B.raw

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263 <211> LENGTH: 45 base pairs
264 <212> TYPE: DNA
265 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 7
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272 <211> LENGTH: 47 base pairs
273 <212> TYPE: DNA
274 <213> ORGANISM: Homo sapiens
W--> 275 <400> SEQUENCE: 8
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## VERIFICATION SUMMARY

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PATENT APPLICATION: US/09/101,423B

TIME: 12:21:17

Input Set : A:\Pto.amc

Output Set: N:\CRF3\01232001\I101423B.raw

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L:7 M:283 W: Missing Blank Line separator, <140> field identifier  
L:11 M:283 W: Missing Blank Line separator, <160> field identifier  
L:59 M:283 W: Missing Blank Line separator, <400> field identifier  
L:275 M:283 W: Missing Blank Line separator, <400> field identifier